

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 08313466 A

(43) Date of publication of application: 29.11.96

(51) Int. Cl

G01N 27/04

G01J 5/12

G01K 7/02

G01K 15/00

G01N 27/00

(21) Application number: 07142540

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(22) Date of filing: 17.05.95

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(54) DETECTING DEVICE OF DETERIORATION OF
THERMOCOUPLE

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(57) Abstract

PURPOSE: To obtain a detecting device of deterioration of a thermocouple which can detect and predict deterioration of the thermocouple easily, by a simple construction.

CONSTITUTION: This device is equipped with a current source 5 which supplies a prescribed current intermittently to a thermocouple 1 and with a processing means 3 which measures a temperature T from a thermoelectromotive force generated by the thermocouple 1, calculates a resistance value corresponding to the measured temperature from the relation between a temperature and the resistance value of the thermocouple 1 stored beforehand in a memory 4, measures the resistance value of the thermocouple 1 from a voltage drop at the time when the current is supplied to the thermocouple 1 from the current source 5, compares this resistance value with the calculated resistance value and detects deterioration of the thermocouple 1 therefrom.

